

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

DATE MAILED: 11/18/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/649,035	08/27/2003	Larry Kirn	JAM-03002/29	5122
75	90 11/18/2004		EXAMINER	
John G. Posa			NGUYEN, KHANH V	
Gifford, Krass, Anderson & Cit			ART UNIT	PAPER NUMBER
	odward Ave., Suite 400		2817	
Birmingham, N	⁄II 48009-5394		DATE MAILED: 11/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u>uh</u>
	Application No.	Applicant(s)
	10/649,035	KIRN, LARRY
Office Action Summary	Examiner	Art Unit
	Khanh V. Nguyen	2817
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perions  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mained patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, however, may a re  apply within the statutory minimum of thirty  of will apply and will expire SIX (6) MONT  ute, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).
Status		•
<ul> <li>1) Responsive to communication(s) filed on 27</li> <li>2a) This action is FINAL.</li> <li>2b) The sum of the sum</li></ul>	nis action is non-final. vance except for formal matte	•
Disposition of Claims		
4) ⊠ Claim(s) <u>1-5</u> is/are pending in the application 4a) Of the above claim(s) is/are withdom 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-5</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Exami 10)☑ The drawing(s) filed on 27 August 2003 is/ard Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11)☐ The oath or declaration is objected to by the	e: a) ☐ accepted or b) ☑ obj ne drawing(s) be held in abeyand ection is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Apriority documents have been eau (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s)	•	
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date 8/27/03.	Paper No(s	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152) 

#### **DETAILED ACTION**

# **Drawings**

New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the current draw is unreadable. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The "effective references" are not clearly defined in the specification.

It is unclear which "circuitry" having the claimed function are intended.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

<sup>(</sup>b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims rejected under 35 U.S.C. 102(b) as being anticipated by Muri et al. (5,438,694).

Muri et al. (Fig. 1) disclose a pulse-width modulated circuit comprising: a voltage divider (104, 106) and supply (Vdd) which can be read as effective references; and load (136/132) between nodes (138, 140) and elements connected to each nodes (138, 140) can be read as a circuitry for summing, wherein drivers (116, 148) control switches (118, 128, 144, 146). Regarding claim 2, the supply (Vdd) and voltage divider (104, 106) are independent.

### Allowable Subject Matter

Claims 3-5 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 3-5 call for, among others, a data separator, and circuitries for modulating first and second references.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference (Kirn (6,535,058)) shows further analogous prior art circuitry.

This art is deemed relevant and should be carefully reviews before any amendment is filed.

Art Unit: 2817

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KHANH V. NGUYEN PRIMARY EXAMINER

Khanklandguye